



CUBEDRIVE

STANDARDIZED PROPULSION MODULES

Advantages:

Full system

- Thrusters
- Tanks
- Valves
- Control electronics

High performance, low cost

Nitrous oxide (N₂O) and Propylene (C₃H₆).
Self-pressurizing: no pumps or pressurants.
REACH compliant.

Rideshare friendly

Flown on Falcon 9, Vega, and Electron rockets, the CubeDrive system is friendly for a variety of launchers.

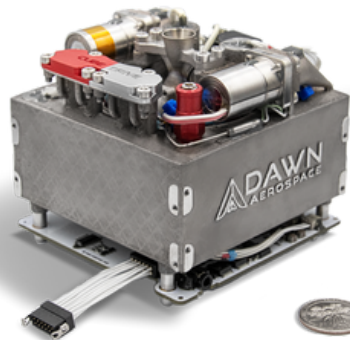
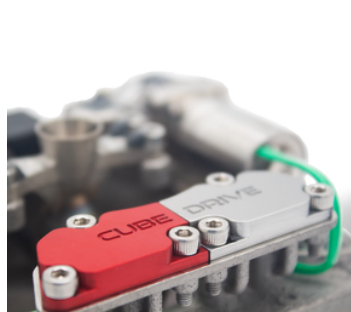
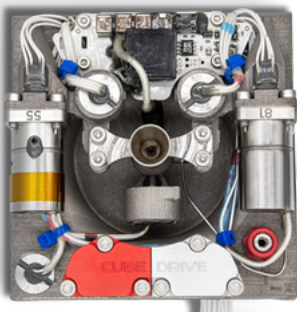
Short lead times

Standardized configuration for a shorter lead time. Get it in your cleanroom in less than a year!

0.8U Module

2U Module

| Status | In space | In qualification |
|---------------------|--|---|
| Thrusters | 1x B1 thruster | |
| Thrust | 0.44 to 1.15 N (0.09 to 0.26 lbf) | |
| Minimum impulse bit | 68 mN.s (bi-propellant) 0.48 mN.s (cold gas) | |
| Total impulse | 400 N.s (90 lbf.s) | 1500 N.s (337 lbf.s) |
| Mass (dry / wet) | 1051 g / 1250 g (2.32 lbs / 2.76 lbs) | 2000 g / 2750 g (4.41 lbs / 6.06 lbs) |
| Dimensions | 80 x 96 x 96 mm (3.15 x 3.78 x 3.78 in) | 200 x 96 x 96 mm (7.87 x 3.78 x 3.78 in) |
| Turn-key systems | All systems include thrusters, tanks, tubing, health monitoring, control electronics, and structures | |
| Propellants | Nitrous oxide (N ₂ O) and propylene (C ₃ H ₆) | |
| Tanks | Type 1: All metallic. 3D printed using Inconel | |
| Data | CAN bus (other data protocols available on request) | |
| Supply voltage | Digital: 5 to 5.2 VDC Actuators: 14 VDC unregulated | |
| Propellant loading | At the launch site or integration facilities by Dawn | |



TRUSTED BY



ZENTRUM
FÜR
TELEMATIK



+ 6
Undisclosed
Customers